Project	Developments works to be under taken in Ward No.36 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

Date: 14-02-2022

Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	1	2
Chainage / Location	Vinayaknagar 5th main app road ch:35	Vinayaknagar 5th main app road ch:80
Wt. of wet material from hole (Ww) gms.	5982	5994
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10594	10590
Wt. of sand in hole+ cone (w3) gms.	4406	4410
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3326	3330
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.29	98.56
% compaction required	98%	98%

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	14-02-2022
		Date of Testing	15-02-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	**100**
20.00 mm	278	278	2.78	97.22	**95 - 100**
10.00 mm	4652	4930	49.30	50.70	**25 - 55**
4.75 mm	4582	9512	95.12	4.88	**0 - 10**
Pan	488	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	14-02-2022
		Date of Testing	15-02-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	**100**
20.00 mm	260	260	2.60	97.40	**95 - 100**
10.00 mm	4897	5157	51.57	48.43	**25 - 55**
4.75 mm	4344	9501	95.01	4.99	**0 - 10**
Pan	499	10000			

Remarks : Satisfactory / Not Satisfactory

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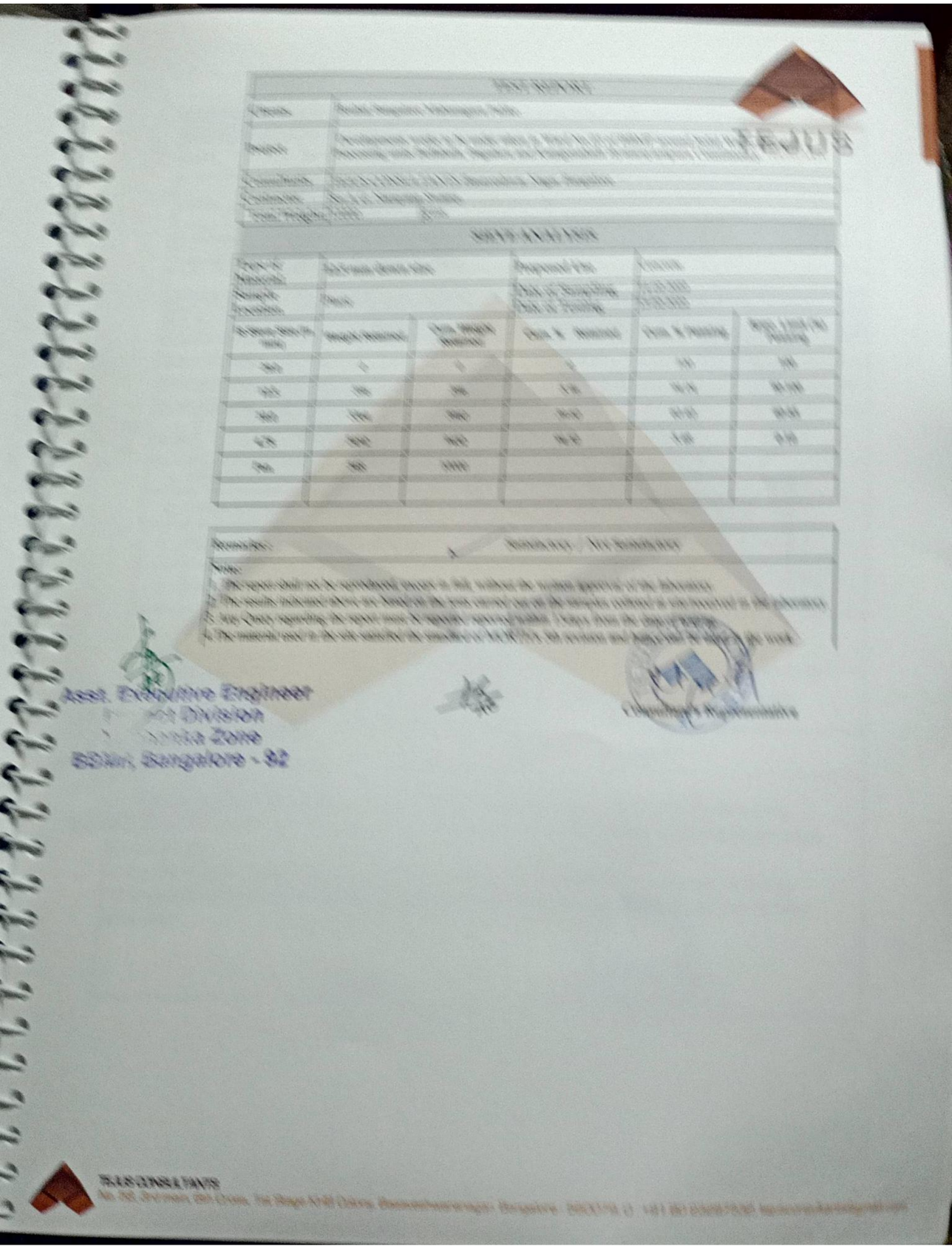

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	Concrete
Location/Source	At Plant	14-02-2022	14-02-2022
Period of Soaking	24 hours	14-02-2022	15-02-2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	638	656	674	
B	Weight of oven - dry sample gm.	628	648	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1676	1688	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.650	2.667	2.653	**2.657**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.592	1.235	1.201	**1.343**

Remarks Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Materia	M sand	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	14-02-2022
		Date of Testing	15-02-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	230	230	7.67	92.33	90 - 100
2.36 mm	280	510	17.00	83.00	75 - 100
1.18 mm	512	1022	34.07	65.93	55 - 90
0.600 mm	546	1568	52.27	47.73	35 -59
0.300 mm	662	2230	74.33	25.67	8-30
0.150 mm	536	2766	92.20	7.80	0 - 10
Pan	234	3000			-

Remarks : Satisfactory / Not Satisfactory

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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	Plant	Date of Sampling	14-02-2022
		Date of Testing	15-02-2022

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	572	572	5.72	94.28	90-100
10.0	3342	3914	39.14	60.86	40-85
4.75	5420	9334	93.34	6.66	0-10
Pan	666	10000			

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Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	14-02-2022
Period of Soaking	24 hours	14-02-2022	15-02-2022

Sl. No.	Test Property	TRIAL - 1	14-02-2022		Average
A	Weight of sturated surface dry sample gm.	662	640	670	
B	Weight of oven - dry sample gm.	653	632	662	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1692	1678	1696	
E	Bulk specific gravity B / (C + A - D)	2.665	2.667	2.659	2.664
G	Absorption (%) (A - B) *100 / B	1.378	1.266	1.208	1.284

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**15-02-2022**
Sample Location	At plant	**Date of Testing**	**15-02-2022**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	376.00	366.00	382.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	284.00	275.00	286.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	92.00	91.00	96.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	24.47	24.86	25.13	
5	Average Aggregate impact value	(%)	24.82			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**15-02-2022**
Sample Location	At plant	**Date of Testing**	**15-02-2022**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	379.00	365.00	386.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	286.00	275.00	294.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	93.00	90.00	92.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	24.54	24.66	23.83	
5	Average Aggregate impact value	(%)	24.34			Max - 30 %

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM		Proposed Use	DBM
Sample Location	At plant		Date of Sampling	15-02-2022
			Date of Testing	15-02-2022

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7396	677	7065	345
31.5	25.0	4265	234	3568	285
25.0	20.0	2465	248	1865	220
20.0	16.0	1544	330	966	261
16.0	12.5	588	111	460	196
12.5	10.0	498	72	275	95
10.0	6.3	139	84	84	65
Total		16895	1756	14283	1467

Results

Flakiness Index(%):	10.39
Elongation Index(%):	10.27
Combined FI+EL (%)	20.66

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM		**Proposed Use**	**DBM**
Sample Location	At plant		**Date of Sampling**	**15-02-2022**
			Date of Testing	**15-02-2022**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7398	672	7066	343
31.5	25.0	4262	234	3568	285
25.0	20.0	2465	248	1865	220
20.0	16.0	1544	330	966	261
16.0	12.5	588	111	460	196
12.5	10.0	498	72	275	95
10.0	6.3	139	84	84	65
Total		**16894**	**1751**	**14284**	**1465**

Results

Flakiness Index(%):	10.36
Elongation Index(%):	10.26
Combined FI+EL (%)	20.62

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Test Report on Compressive Strength of Concrete Cubes

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal processing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Chokkanahalli Village road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-02-2022	21-02-2022	7days	8.740	22500	442	19.64	19.88
2	15-02-2022	21-02-2022	7days	8.682	22500	451	20.04	
3	15-02-2022	21-02-2022	7days	8.584	22500	449	19.96	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Chokkanahalli Village road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-02-2022	21-02-2022	7days	8.824	22500	442	19.64	19.88
2	15-02-2022	21-02-2023	7days	8.832	22500	451	20.04	
3	15-02-2022	21-02-2024	7days	8.870	22500	449	19.96	

Remarks : ✓ Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS
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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling	16-02-2022
Sample Location	At plant	Date of Testing	16-02-2022

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	376.00	365.00	347.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	280.00	270.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	96.00	95.00	89.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.53	26.03	25.65	
5	Average Aggregate impact value	(%)	25.74			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
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2. The results indicated above are based on the tests carried out on the samples collected at site /received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

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Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	378.00	363.00	346.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	280.00	270.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	98.00	93.00	88.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.93	25.62	25.43	
5	Average Aggregate impact value	(%)	25.66			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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Contractor	Sri.A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	BC
Sample Location	At plant		**Date of Sampling**	16-02-2022
			Date of Testing	16-02-2022

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	967	89	963	76
16.0	12.5	1308	111	1241	122
12.5	10.0	522	78	436	58
10.0	6.3	490	65	422	60
Total		**3287**	**343**	**3062**	**316**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.44
Elongation Index(%):	10.32
Combined FI+EL (%)	20.76

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	**BC**
Sample Location	At plant		**Date of Sampling**	16-02-2022
			Date of Testing	16-02-2022

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	959	86	962	76
16.0	12.5	1309	112	1241	120
12.5	10.0	522	78	436	58
10.0	6.3	498	68	425	60
Total		**3288**	**344**	**3064**	**314**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.46
Elongation Index(%):	10.25
Combined FI+EL (%)	20.71

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DETERMINATION OF RATE OF SPREAD TACK COAT				
Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.			
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE			
Consultant :	M/s Tejus Consultants			
Contractor :	Sri.A G Narayana Swamy.			
Date of Testing :	18-02-2022			
Type of Mix :	Tack coat			
Sample I/D :	2			
Location :	Chokkanahalli main road			
Determination	**Unit**	**Test No**		
		1	2	3
Loacation	**Chainage**	**@452**	**@526**	**@645**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.787	0.806	0.779
Final weight of plate after application of tack Coat (c)	Kg	0.810	0.829	0.802
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.252	0.253
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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Client :	BRUHAT BANGALORE MAHANAGARA PALIKE			
Consultant :	M/s Tejus Consultants			
Contractor :	Sri.A G Narayana Swamy.			
Date of Testing :	18-02-2022			
Type of Mix :	Tack coat			
Sample I/D :	1			
Location :	Chokkanahalli main road			
Determination	**Unit**	**Test No**		
		1	**2**	**3**
Loacation	**Chainage**	**@800**	**@850**	**@900**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.782	0.820	0.778
Final weight of plate after application of tack Coat (c)	Kg	0.805	0.843	0.801
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.252	0.254
Average	Kg/sq.m	0.253		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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